5th Annual Smart Grids & Cleanpower 2013 Conference 5 June 2013 Cambridge

<u>www.cir-strategy.com/events/cleanpower</u>

Distributed Energy storage at the edge of the grid

Chris Wright, CTO



cir-strategy.com/events Cambeidge June 5 2013 SMART GRIDS & CLEANPOWER

HYBRID POWER SYSTEMS

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SMART ENERGY ANALYTICS

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Storage at the edge of the grid

Increasing value pushing storage to the edge:









Developing & deploying

Residential installs, theatre in London, DECC project



Arcola theatre, east London.





Residential trials

Design for 1.2MWh demonstrator in 750 homes



Department of Energy & Climate Change







Powers lighting and electronics

Storage and control, DC LED lighting, DC power, PV









Time-shifting energy use

Store off-peak or renewable generation, use at peak

SMART CRIDS & CLEANDOWE





Efficient Hybrid Power

Growing DC electricity use

It is always on ICT & electronics that is driving growth

MADT COIDS



Source: Pilgrim Beart via Moixa/DECC





Maslow system architecture

Distributed architecture, cloud based control, scalable

SMART CRIDS & CIEANRON







Hierarchy of network needs

Storage at the edge of the grid, multiple participants







Scaling deployment to millions

Moixa partnering with experts to enable ramp to scale





AVC install partner SKY installer installing 40k / week optimising process





Green utility engaged customers need wind twinning custom local tariffs





Demand aggregator Control infrastructure NG & local services Maslow integrated







Global growth in distributed

Subsidy / customer pull only for systems at the edge







California

network pays capex subsidy to end users SGIP/SB412 @ \$2/Wh

Japan

end customers pay for resilience Sharp / Panasonic etc

Germany

subsidy given solar /win balance benefit active from 1st May





Maslow – energy future



- energy storage at the edge of the grid
- energy resilience for consumers
- time shift energy use

Powered by Naslow

- multiple use layers / money
- affordable / scalable technology
- network benefits of storage





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